

AMENDMENTS TO THE SPECIFICATION

Please amend the specification as indicated hereafter. It is believed that the following amendments and additions add no new matter to the present application.

In the Specification

In the Specification: [Use ~~strikethrough~~ for deleted matter and underlined for added matter.]

Please amend the last paragraph on page 19, as follows:

Carbon fibers are intrinsically a suitable material as electron donor and acceptors, and they therefore can be used without any coating in both receiving voltage signals from neurons and stimulating neurons with voltage signals. They can also have coatings such as used for recording to enhance either receiving or stimulating. Stimulation and receiving can be combined in the same array. Some array elements may receive voltage signals, and these recordings could be filtered by a band-pass amplifier, ~~which would then either then~~ Then other array elements would use the output of that processing to stimulate neurons to control, enhance, replace CNS function, either lost due to disease or degeneration, or to enhance normal function such as in a direct CNS interface.